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**PN** - JP2002039659 A 20020206  
**TI** - SERVICE AND TEMPERATURE ADMINISTRATION SYSTEM  
**FI** - F25D23/00&301G ; F25D11/00&101D ; G08C19/00&301A ; G08C15/00&E ; G08C15/00&G ;  
 G08C17/00&A ; G08C19/00&X ; G08C21/00  
**PA** - SAGAWA EXPRESS CO.LTD; SANYO ELECTRIC CO; VERTEX SYSTEM KK  
**IN** - TANIMOTO IKUO; KAWAI MOICHI; TANAKA TETSUYA  
**AP** - JP20000228212 20000728  
**PR** - JP20000228212 20000728  
**DT** - I

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**AN** - 2002-356371 [39]  
**TI** - Goods temperature management system for refrigerated foodstuff **transportation**, **transmits** vehicle **positional** and goods temperature information to management server through wireless network  
**AB** - JP2002039659 NOVELTY - A vehicle mounted terminal equipment routinely **transmits** the **positional** information of the moving vehicles (1,2) from a GPS **receiver** (3). A thermography device installed in an isothermal **container** of the vehicle, reads the temperature of the goods in the **container**. An antenna **transmits** the vehicle **positional** and goods temperature information to a management server (8) through a wireless network (4).  
 - USE - For managing the temperature of goods like refrigerated and frozen foodstuffs when they are **transported** from one place to another.  
 - ADVANTAGE - Achieves real-time management of both the vehicle operation and the goods temperature information using GPS and wireless network and thus enables easy confirmation of the temperature condition of the **transported** goods.  
 - DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the goods temperature management system. (Drawing includes non-English language text).  
 - Moving vehicles 1,2  
 - GPS **receiver** 3  
 - Wireless network 4  
 - Management server 8  
 - (Dwg.1/10)  
**IW** - GOODS TEMPERATURE MANAGEMENT SYSTEM REFRIGERATE FOOD **TRANSPORT** **TRANSMIT** VEHICLE **POSITION** GOODS TEMPERATURE INFORMATION MANAGEMENT SERVE THROUGH WIRELESS NETWORK  
**PN** - JP2002039659 A 20020206 DW200239 F25D11/00 008pp  
**IC** - F25D11/00 ; F25D23/00  
**MC** - S03-B01 T01-J05 W05-D06A1A W05-D07D W05-D08E W06-A03A5C X22-P05B X22-X04 X27-F X27-F03  
**DC** - Q75 S03 T01 W05 W06 X22 X27  
**PA** - (SAGA-N) SAGAWA KYUBIN KK  
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TI - SERVICE AND TEMPERATURE ADMINISTRATION SYSTEM  
AB - PROBLEM TO BE SOLVED: To make it possible to check a temperature history and data of a freight in corresponding relation with each other after completion of in the case deep frozen/refrigerated foods or the like are .  
- SOLUTION: The deep frozen/refrigerated foods are together with a temperature recording device having a storage function of storing temperatures detected at specified intervals, in a state of being housed in a low temperature cabinet loaded on freight compartments of trucks 1 and 2. An on-vehicle terminal system comprising a GPS information means and a public radio circuit communication means is installed on seats next to driver's seats or the like of each trucks 1 and 2. The on-vehicle terminal system acquires information on current positions by the GPS information, taking means at specified intervals during , and transmits the information to an administration server 8 through a public radio communication network 4. After completion of , the temperature recording device is set on the on-vehicle terminal system to read temperature data, and is made to the administration server 8 through the public radio communication network 4. The administration server 8 links the information on the current position and the temperature data with one another, and displays the temperature history and the information on correspondingly.  
I - F25D11/00 ;F25D23/00  
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AP - JP20000228212 20000728

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